

APPENDIX I

THEATER CONSTRUCTION MANAGEMENT SYSTEM

1. The Theater Construction Management System (TCMS) is an integrated software system for engineer planning, design, construction management, material acquisition planning, and project reporting within the theater of operations.
2. TCMS integrates the Army Facilities Components System (AFCS) as a database for facility drawings, plans, and materials with other army software and commercial software. Prior to TCMS, AFCS was distributed in Training Manuals: TMs 5-301; 5-302; and 5-303.
3. TCMS is intended for use by military planners, engineers, logisticians, and constructors. The integrated software will support the USACE Divisions/Districts, MACOM Engineers, and Engineer Commands and subordinate units in the planning, managing, and engineer construction missions.
4. TCMS automates the requirements for the engineer construction mission through commercial software integrated by government produced software. Planners can analyze beddown and mission facility requirements by organization TO&Es, and the engineer labor and material required to provide the facilities being considered. Design drawing requirements for engineering plans in TCMS are accomplished by using a library of CADD drawings of various facilities and installations. In the planning or management module, the drawings can be viewed and marked up. The plans can also be modified by using CADD, which is linked by menus in TCMS. Bills of Material (BOM) are related to the drawings using a data base of class IV material, maintained by national stock number (NSN). Construction project management and reporting in TCMS are handled by using commercial, Critical Path Method (CPM) scheduling software. TCMS also supports word processing software for documents and reports. Various printers and plotters are supported by the software for hard copy of the drawings, schedules or reports. Communications software is also included to allow data to be sent via modem to remote computers. These programs run on a MS-DOS environment personal computer. A high speed 486 microprocessor with at least 300 MB of hard disk memory is the preferred personal computer, but TCMS will run on a 386 machine.

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5. TCMS data bases, software improvements and enhanced features are maintained and distributed by the AFCS Branch, U.S. Army Engineering and Support Center, Huntsville.